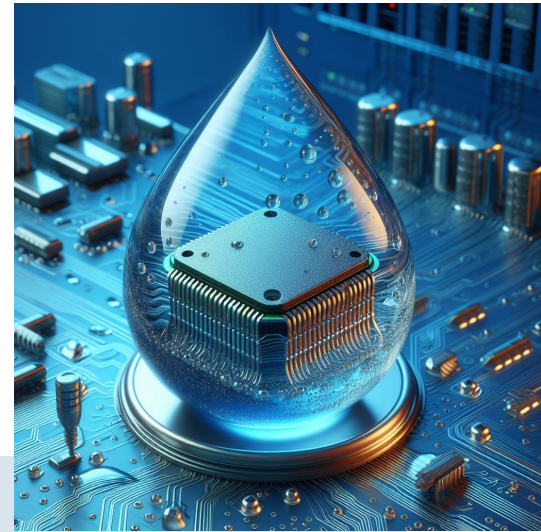


## Zitrec<sup>®</sup> EC 20

### Propylene glycol based heat transfer fluid

Zitrec<sup>®</sup> EC 20 is a heat transfer fluid based on high quality grade monopropylene glycol (PG) and an additive package that provides corrosion protection for a wide array of materials making this product a universal solution.

Zitrec<sup>®</sup> EC 20 is specially designed for the cooling of electronic components where a low toxicity product is required with a universal material compatibility.



## PRODUCT BENEFITS



### Efficient heat transfer

- Available in various PG concentrations, combining the benefits of PG with the excellent heat transfer properties of water.



### Extra Reliability through Organic Additive Technology

- Patented additive package
- Corrosion inhibitors protecting all kinds of metals
- Depletion free and stable



### Material compatibility

- High temperature corrosion protection for aluminium, copper, (stainless) steel, brass, ...
- Compatible with most common tubes, hoses and seals



### Environment and safety

- Propylene Glycol derived from recycling and purification of de-icing fluid
- Non-classified formulation according to EU and US regulation
- Expected to be readily biodegradable
- Free from nitrites, borates and 2-EHA

## Application

Arteco's **Zitrec® EC 20** is designed as a liquid heat transfer medium for a wide range of applications and particularly recommended for electronic components such as **liquid cooled Direct-to-Chip applications, Glycol cooled CRAC (Computer room AC units), Datacom Equipment Center Cooling** and **Glycol loop heat transfer exchangers**.



*Power Electronics*



*Edge Computing*



*Servers*



*High Performance Computing*

**Zitrec® EC 20** is available in various PG/water concentrations depending on the system requirements.

## Toxicity & safety

For toxicity information, safe handling and disposal of the product, we refer to the Safety Data Sheet. This product should not be used to protect the inside of drinking water systems against freezing.

## Packaging

Arteco's **Zitrec® EC 20** can be made available in different types of packages.



**IBC 1000L**



Colour options upon request

## Contact details

Should you have questions with regards to Arteco's **Zitrec® EC 20**, related to available packages, dilutions or colours or on one of the other Arteco solutions, please do not hesitate to contact your local Area Sales Manager or send your inquiry to [info@artecco-coolants.com](mailto:info@artecco-coolants.com).

**Addendum - Technical information**

**Chemical and Physical Properties**

Property	Zitrec® EC 20	Unit	Method
Propylene glycol	93	% w/w	
Other glycols	0.5 max.	% w/w	
Inhibitor content	5	% w/w	
Water content	4 max.	% w/w	ASTM D1123
Nitrite, amine, borate	-		
Specific gravity (20°C)	1.042 typ.		ASTM D1122
Equilibrium boiling point	163	°C	ASTM D1120
Reserve alkalinity	5.7 typ.		ASTM D1121
Refractive index	1.431 typ.		

**Chemical and Physical Properties - Dilutions**

	<i>40% dilution</i>	Unit	<i>Method</i>
pH	8.8		ASTM D1287
Freezing point	-20	°C	ASTM D1177
Specific gravity (20°C)	1.034 typ.		ASTM D5931
Hard water stability	no precipitate		

## Shelflife & storage requirements

**Zitrec® EC 20** can be stored for minimum 8 years in unopened recipient without any effect on the product quality or performance. It is strongly recommended to use new not translucent containers and where possible packages with a UV filter. Direct sunlight and high temperatures can degrade the quality of the product. **Zitrec® EC 20** should be stored above -20°C and below 30°C. Periods of exposure to temperatures above 35°C should be minimised.

**Zitrec® EC 20** is not compatible with galvanized steel.

## Compatibility and mixability

- Arteco's **Zitrec® EC 20** is compatible with most other heat transfer medium based on propylene or ethylene glycol. Exclusive use is however recommended for optimum corrosion protection and sludge control.
- Use of deionised or distilled water to prepare the ready-to-use dilutions for controlled quality is advised. We refer to our product information leaflet on water quality recommendations.

*The information contained in this Product Information Leaflet is intended to provide the customer and/or end-user with an understanding of the properties of the product, it being understood that this information may not be construed as any express or implied warranty that the product is suitable for a specific use or application. All information contained in this Product Information Leaflet, including but not limited to text or graphic material, is the property of Arteco NV, is accurate to the best of our knowledge at the date of issue specified, supersedes all previous editions and information contained in them, and is subject to change without notice. Any textual or graphic material you copy, print, or download from this Product Information Leaflet is for your personal, non-commercial use only, and you not change or delete any copyright, trademark or other proprietary notices. Any other use, including but not limited to the reproduction, distribution, display or transmission of the content of this document is strictly prohibited, unless authorized by Arteco NV in writing.*

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